**The Relationship between the Height of Something or Other and the Temperature of the Whosits.**

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**Abstract**: [briefly explain the lab] According to theory, the height of something or other depends on the mass and the caloric content of the whosits. We conducted an experiment where we set the mass and caloric content of three whosits and then measured the resulting height. Our results agreed with theoretical predictions to within ten percent.

**Materials**: whosits(3), ruler, calorimeter.

**Procedure**: [explain the lab in detail] Hold the first whosits at a height of 30cm from the whatsit , measured from the bottom of the whatsit to the top of the whosits. Warm the whosits in hot water until they reach a temperature of 80oC. As the temperature rises from there, the whosits should rise a small amount. We measured the temperature every 10 degrees and recorded the height.

[make sure that you explain the procedure well enough that anyone can follow your instructions and repeat the experiment. Be clear about measurements such as distances and heights.]

**Results** [put all measured data here. Don’t put anything that requires a calculation here. Use tables, graphs, lists.]

**Figure 1:** The following is a graph showing the height of the whosits versus temperature:

**Calculations**

[to show how you made certain calculations. You might omit this section and put in the discussion area if you feel that works better]

From fig. 1 we can see that the height of the whosit decreased for the first ten degrees, then increased linearly. We get a slope of -0.2cm/oC for the first 10 degrees, followed by a slope of 0.1cm/oC for the next twenty degrees.

For 1st 10 degrees:

m = rise/run

= -2cm/10oC

= 0.2cm/oC

For 2nd 20 degrees:

m = rise/run

= 2cm/20oC

= 0.1cm/oC

**Discussion**

[ this is where you put your in depth analysis of the situation. Talk about the theory, explain in detail the results. The results never lie – explain them. Show calculations, diagrams, tables, and discuss, discuss, discuss. 80% of your mark comes from this section! ]

**Conclusion**

[Give a wrap-up of your results. Discuss how you would like to tweak your experiment – what questions do you have that need answering? How could you find the answer? Don’t just blame everything on friction or bad measurements. How could you conduct a new experiment and get more results, better results? If your lab was “perfect” and better results couldn’t be obtained, then what would you investigate next (in the same area of physics)?

Just stick to the facts. Don’t say the lab was interesting. Don’t say you learned a lot. Don’t thank your teacher or your fans. ]